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L5	L4 and PDZ adj 6 domain	140788	L5
L4	L1 and FAS	3056	L4
L3	L2 and FAs	260	L3 .
L2	L1 and microarray	2312	L2
L1	array	. 523775	L1

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=> s PDZ domain

980 PDZ

185188 DOMAIN

L1 669 PDZ DOMAIN

(PDZ(W)DOMAIN)

=> s l1 and array

61715 ARRAY

2 7 L1 AND ARRAY

=> d 12 1-7 au so py ab

- L2 ANSWER 1 OF 7 CA COPYRIGHT 2002 ACS
- AU Kirikoshi, Hiroyuki; Katoh, Masaru
- SO International Journal of Oncology (2002), 20(6), 1183-1187 CODEN: IJONES; ISSN: 1019-6439
- PY 2002
- AB GIPC1/GIPC, GIPC2, and GIPC3 are a family of central PDZ-domain proteins. GIPC1/GIPC interacts with TGF.beta. type III receptor, receptor tyrosine kinase TrkA, integrin .alpha.6A subunit, and GTPase-activating protein RGS-GAIP, while Xenopus homolog of human GIPCs interacts with Frizzled-3 (FZD3) class of WNT receptor. Here, we

Shin'ichi

SO Proceedings of the Japan Academy, Series B: Physical and Biological Sciences (2000), 76B(2), 22-27 CODEN: PJABDW; ISSN: 0386-2208

PY 2000

.alpha.1-Syntrophin, a member of dystrophin-assocd. proteins, is expressed AB at the sarcolemma and at perivascular astrocytes, and participates in protein-protein interactions through its PDZ domain. Aquaporin-4 (AQP4) is the predominant water channel protein in the brain, and also expressed at the sarcolemma of fast-twitch muscle fibers. AQP4 is concd. in orthogonal array particles (OAPs), and its expression has been reported to be decreased at the sarcolemma of dystrophin-deficient mdx mice. We examd. whether .alpha.1-syntrophin targets AQP4 at the sarcolemma. Immunohistochem. showed that AQP4 is absent at the sarcolemma in .alpha.1-syntrophin knockout mice and that its expression is also lost from the perivascular astrocyte endfeet. On the other hand, expression of AQP4 is not decreased at the sarcolemma of the knockout mice in the neonatal stage. Moreover, AQP4 is expressed in lung, stomach, and kidney of wild-type and .alpha.1-syntrophin null mice. These results show that .alpha.1-syntrophin is a key mol. to localize AQP4 to the sarcolemma of mature fast myofibers and astrocyte endfeet, but AQP4 is targeted to the plasma membrane by different mols. in lung, stomach, and kidney.

L2 ANSWER 6 OF 7 CA COPYRIGHT 2002 ACS

IN Bartel, Paul L.; Tavtigian, Sean V.

SO PCT Int. Appl., 107 pp.

CODEN: PIXXD2

PY 1999

1999

1999

2002

2002

The present invention is directed to the MMSC1 gene, its protein product AB and the use of the protein to (i) detect mutant MMAC1 proteins, (ii) screen for drugs which can be used for suppressing tumor growth and (iii) identify proteins which interact with the MMAC1 gene or are involved in the tumor suppression pathway of the MMAC1 gene. Yeast two-hybrid screening indicated that MMAC1 binding to a protein named MMSC1. MMSC1 has eleven PDZ domains and one or more of these domains interacts specifically with the three C-terminal amino acids of MMAC1. Specifically, PDZ domain no. 7 interacts with MMAC1. Since MMSC1 contains 11 PDZ domains and interacts with MMAC1, a known amino acid suppressor having a region of homol. with protein tyrosine phosphatases, MMSC1 acts as a scaffolding protein in a common biochem. pathway with MMAC1. These characteristics indicate that the interaction between MMAC1 and MMSC1 is required for the tumor suppressor activity of MMAC1.

- L2 ANSWER 7 OF 7 CA COPYRIGHT 2002 ACS
- AU Xu, Xian-Zhong Shawn; Choudhury, Atish; Li, Xiaoling; Montell, Craig
- SO Journal of Cell Biology (1998), 142(2), 545-555 CODEN: JCLBA3; ISSN: 0021-9525

PY 1998

The rapid activation and feedback regulation of many G protein signaling cascades raises the possibility that the crit. signaling proteins may be tightly coupled. Previous studies show that the PDZ domain contg. protein INAD, which functions in Drosophila vision, coordinates a signaling complex by binding directly to the light-sensitive ion channel, TRP, and to phospholipase C (PLC). The INAD signaling complex also includes rhodopsin, protein kinase C (PKC), and calmodulin, though it is not known whether these proteins bind to INAD. In the current work, we show that rhodopsin, calmodulin, and PKC assoc. with the signaling complex by direct binding to INAD. We also found that a 2nd ion

channel, TRPL, bound to INAD. Thus, most of the proteins involved directly in phototransduction appear to bind to INAD. Furthermore, we found that INAD formed homopolymers and the homomultimerization occurred through 2 PDZ domains. Thus, we propose that the INAD supramol. complex is a higher order signaling web consisting of an extended network of INAD mols. through which a G protein-coupled cascade is tethered.

=> d his

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L1 669 S PDZ DOMAIN

L2 7 S L1 AND ARRAY

=> s l1 and tripeptide

9209 TRIPEPTIDE

L3 3 L1 AND TRIPEPTIDE

=> d 13 1- 3 ti au so py ab

YOU HAVE REQUESTED DATA FROM 4 ANSWERS - CONTINUE? Y/(N):y

- L3 ANSWER 1 OF 3 CA COPYRIGHT 2002 ACS
- TI Identification of mNET1 as a Candidate Ligand for the First PDZ

 Domain of MAGI-1
- AU Dobrosotskaya, Irina Y.
- SO Biochemical and Biophysical Research Communications (2001), 283(4), 969-975
 CODEN: BBRCA9; ISSN: 0006-291X
- PY 2001
- This paper reports the identification of a Rho family nucleotide exchange factor termed mNET1 as a candidate-interacting partner for the first PDZ domain of MAGI-1, a membrane-assocd. guanylate kinase with inverted arrangement of protein-protein interacting modules. mNET1 was identified in a yeast two-hybrid screen and has a consensus tripeptide for PDZ domain binding at its extreme carboxy-terminus. In addn. to this sequence, a cluster of basic residues located near the carboxy terminus is essential for the binding. The interaction of the first PDZ domain of MAGI-1 with mNET1 was documented using a variety of biochem. methods. (c) 2001 Academic Press.
- L3 ANSWER 2 OF 3 CA COPYRIGHT 2002 ACS
- TI The molecular interaction of Fas and FAP-1. A **tripeptide** blocker of human Fas interaction with FAP-1 promotes Fas-induced apoptosis
- AU Yanagisawa, Junn; Takahashi, Motoo; Kanki, Hiroaki; Yano-Yanagisawa, Hiroko; Tazunoki, Tetsushi; Sawa, Eiji; Nishitoba, Tsuyoshi; Kamishohara, Masaru; Kobayashi, Eiichi; Kataoka, Shiro; Sato, Takaaki
- SO Journal of Biological Chemistry (1997), 272(13), 8539-8545 CODEN: JBCHA3; ISSN: 0021-9258
- PY 1997
- AB Fas (APO-1/CD95), which is a member of the tumor necrosis factor receptor superfamily, is a cell surface receptor that induces apoptosis. A protein tyrosine phosphatase, Fas-assocd. phosphatase-1 (FAP-1), that was previously identified as a Fas binding protein interacts with the C-terminal 15 amino acids of the regulatory domain of the Fas receptor. To identify the minimal region of the Fas C-terminal necessary for binding to FAP-1, we employed an in vitro inhibition assay of Fas/FAP-1 binding using a series of synthetic peptides as well as a screen of random peptide libraries by the yeast two-hybrid system. The results showed that the C-terminal three amino acids (SLV) of human Fas were necessary and sufficient for its interaction with the third PDZ (GLGF) domain of FAP-1. Furthermore, the direct cytoplasmic microinjection of this tripeptide (Ac-SLV) resulted in the induction of Fas-mediated

apoptosis in a colon cancer cell line that expresses both Fas and FAP-1. Since t(S/T)X(V/L/I) motifs in the C termini of several other receptors have been shown to interact with **PDZ domain** in signal transducing mols., this may represent a general motif for protein-protein interactions with important biol. functions.

- L3 ANSWER 3 OF 3 CA COPYRIGHT 2002 ACS
- TI Crystal structure of a PDZ domain
- AU Cabral, Joao H. Morais; Petosa, Carlo; Sutcliffe, Michael J.; Raza, Sami; Byron, Olwyn; Poy, Florence; Marfatia, Shirin M.; Chishti, Athar H.; Liddington, Robert C.
- SO Nature (London) (1996), 382(6592), 649-652 CODEN: NATUAS; ISSN: 0028-0836
- PY 1996
- PDZ domains (also known as DHR domains or GLGF repeats) are AΒ .apprx.90-residue repeats found in a no. of proteins implicated in ion-channel and receptor clustering, and the linking of receptors to effector enzymes. PDZ domains are protein-recognition modules; some recognize proteins contq. the consensus C-terminal tripeptide motif S/TXV with high specificity. Other PDZ domains form homotypic dimers: the PDZ domain of the neuronal enzyme nitric oxide synthase binds to the PDZ domain of PSD-95, an interaction that has been implicated in its synaptic assocn. This report describes the crystal structure of the third PDZ domain of the human homolog of the Drosophila disks-large tumor-suppressor gene product, DlgA. It consists of a 5-stranded antiparallel .beta.-barrel flanked by 3 .alpha.-helixes. A groove runs over the surface of the domain, ending in a conserved hydrophobic pocket and a buried arginine; this may be the binding site for the C-terminal peptide.
- L3 ANSWER 3 OF 3 CA COPYRIGHT 2002 ACS
- TI Crystal structure of a PDZ domain
- AU Cabral, Joao H. Morais; Petosa, Carlo; Sutcliffe, Michael J.; Raza, Sami; Byron, Olwyn; Poy, Florence; Marfatia, Shirin M.; Chishti, Athar H.; Liddington, Robert C.
- SO Nature (London) (1996), 382(6592), 649-652 CODEN: NATUAS; ISSN: 0028-0836
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- PDZ domains (also known as DHR domains or GLGF repeats) are AB .apprx.90-residue repeats found in a no. of proteins implicated in ion-channel and receptor clustering, and the linking of receptors to effector enzymes. PDZ domains are protein-recognition modules; some recognize proteins contq. the consensus C-terminal tripeptide motif S/TXV with high specificity. Other PDZ domains form homotypic dimers: the PDZ domain of the neuronal enzyme nitric oxide synthase binds to the PDZ domain of PSD-95, an interaction that has been implicated in its synaptic assocn. This report describes the crystal structure of the third PDZ domain of the human homolog of the Drosophila disks-large tumor-suppressor gene product, DlgA. It consists of a 5-stranded antiparallel .beta.-barrel flanked by 3 .alpha.-helixes. A groove runs over the surface of the domain, ending in a conserved hydrophobic pocket and a buried arginine; this may be the binding site for the C-terminal peptide.

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- L1 669 S PDZ DOMAIN
- L2 7 S L1 AND ARRAY
- L3 3 S L1 AND TRIPEPTIDE

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